

**RECORDING MEDIUM HAVING DATA STRUCTURE WITH REAL-TIME  
NAVIGATION INFORMATION FOR MANAGING REPRODUCTION OF VIDEO  
DATA RECORDED THEREON AND RECORDING AND REPRODUCING  
METHODS AND APPARATUSES**

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**ABSTRACT OF THE DISCLOSURE**

A recording medium having a data structure for managing reproduction of video data recorded on the recording medium. The recording medium having at least one navigation area for storing navigation management information used in managing real-time reproduction path video data recorded on the recording  
10 medium. The navigation management information includes at least one navigation unit that includes a plurality of video data packets and a plurality of real-time navigation packets.